## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	) Group Art Unit: 1651
BARCLAY	) Examiner: Ware, D.
Serial No.: 09/461,709	) AMENDMENT AND RESPONSE
Filed: December 14, 1999	) }
Atty. File No.: 2997-1-3-2	) CERTIFICATE OF FACSIMILE TRANSMISSION
For: "LIPIDS EXTRACTED FROM MICROORGANISMS"	) I hereby certify that this paper is being faceimile transmitted to the Prizent and Trademark Office on

Dear Sir:

In response to the Examiner's Office Action having a mailing date of September 27, 2001, please amend the above-identified U.S. patent application as follows:

## IN THE CLAIMS:

Commissioner for Patents Washington, D.C. 20231

Please amend Claim 61 as follows. Unamended Claims 53-60 and 62-66 are reiterated below for the convenience of the Examiner:

- 53. (Reiterated) A process for producing lipids comprising:
- (a) growing curyhaline microorganisms in a fermentation medium, wherein said euryhaline microorganisms are capable of producing about 1.08 grams per liter per day of longichain omega-3 fatty acids per 40 grams of sugar per liter at a sodium ion concentration of 60% seawater; and

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- (b) extracting lipids from said euryhaline microorganisms.
- 54. (Reiterated) The process of Claim 53, wherein said euryhaline microorganisms have exponential growth rates of at least about 5 doublings per day at 25°C.
- 55. (Reiterated) The process of Claim 53, wherein said euryhaline microorganisms have exponential growth rates of at least about 7 doublings per day at 30 °C.

- 56. (Reiterated) The process of Claim 53, wherein said euryhaline microorganisms are microorganisms of the order Thraustochytriales.
- 57. (Reiterated) The process of Claim 56, wherein said euryhaline microorganisms are selected from the group consisting of *Thraustochytrium*, *Schizochytrium*, and mixtures thereof.
- 58. (Reiterated) The process of Claim 57, wherein said euryhaline microorganisms are selected from the group consisting of ATCC 20888, ATCC 20889, ATCC 20890, ATCC 20891, ATCC 20892, and mixtures thereof.
- 59. (Reiterated) The process of Claim 53, wherein about 20% or less of the total fatty acids in said lipids are omega-6 fatty acids.
- 60. (Reiterated) The process of Claim 53, wherein at least about 49% of the total fatty acids of said lipids are omega-3 fatty acids.
- 7 61. (Twice Amended) The process of Claim 53,1 wherein the ratio of docosahexaenoic acid (DHA) to eicosapentaenoic acid (EPA) in said lipids is about 7.07 or less.
- 62. (Reiterated) The process of Claim 53, wherein at least about 64.5% of omega-3 fatty acids in said lipids is DHA.
- 63. (Reiterated) The process of Claim 53, wherein at least about 86% of omega-3 fatty acids in said lipids is DHA.
- 64. (Reiterated) The process of Claim 53, wherein the ratio of EPA to DHA in said lipids is from about 1:30.
- 65. (Reitcrated) The process of Claim 53, wherein the ratio of DPA to DHA in said lipids is at least about 1:12.
- 66. (Reiterated) The process of Claim 53, wherein the total fatty acid composition in-said lipids comprises about 5% or less of C20:4w6 fatty acid.